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[54]	GROWTH	ARREST	HOMEBOX	CENE

- [75] Inventors: David H. Gorski, Cleveland, Ohio; Kenneth Walsh, Concord, Mass.
- [73] Assignee: Case Western Reserve University, Cleveland, Ohio
- [21] Appl. No.: 203,532
- [22] Filed: Feb. 24, 1994
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- U.S. Cl. 435/69.1; 435/243; 435/320.1; 435/325; 536/23.5
- 536/23.5; 435/69.1, [58] Field of Search . 435/69.4, 320.1, 252.3; 530/399

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Exhibit A is the gene sequence for the rat Gax cDNA (2244 base pairs) submitted by Kenneth Walsh, released to the public Feb. 28, 1993.

Exhibit B, is a gene sequence for Mox-1 (2182 base pairs) (mistakenly designated "Mox-2") submitted by A.F. Candia

to New GenBank and created on Sep. 25, 1992 Exhibit B2 is the same gene sequence as Exhibit B2 except the former designation "Mox-2" has been corrected to read Mox-1.

Exhibit C is the partial gene sequence for mouse Mox-2A submitted by Candia A by A.F. Candia to GenBank and created on Oct. 5, 1992.

Exhibit D is the revision of Exhibit C to show the 1440 base pair mouse Mox-2 sequence on Mar. 6, 1993

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ABSTRACT

A novel growth arrest homeobox gene has been discovered and the nucleotide sequences have been determined in both the rat and the human. The expression of the novel homeobox gene inhibits vascular smooth muscle cell growth. The growth arrest homeobox gene hereinafter referred to as the "Gax gene" and its corresponding proteins are useful in the study of vascular smooth muscle cell proliferation and in the treatment of blood vessel diseases that result from excessive smooth muscle cell proliferation, particularly after balloon angioplasty.

27 Claims, 10 Drawing Sheets